



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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FACSIMILE COVER SHEET

DATE: FEB. 14, 2000

NUMBER OF PAGES INCLUDING THIS COVER SHEET: 3

TO: DAVE CHRISTENSEN

FAX NUMBER: 801-763-9884

FROM: TONY GALLEGOS PHONE (801) 538-5267

Minerals Reclamation and Development Program

PHONE: (801) 538-5291

FAX: (801) 359-3940

SUBJECT: M/015/041 DIAMOND K GYPSUM
- RESPONSE TO 2/11/2000 PHONE CALL -

REMARKS: HERE IS A COPY OF THE DIVISION'S 10/27/99
RECLAMATION ESTIMATE FOR THE DKG QUARRY.
DIAMOND K GYPSUM HAS PROVIDED THE DIVISION
WITH ADDITIONAL INFORMATION WHICH MAY REDUCE
THE AMOUNT OF SURETY NEEDED. PLEASE CONTACT
ME BEFORE FINALIZING A SURETY BOND OR
OTHER FORM OF SURETY.

Should you encounter any problems with this copy, or do not receive all the pages, please call

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Minerals Reclamation and Development Program

RECLAMATION SURETY ESTIMATE

Diamond K Gypsum, Inc.

last revision

10/27/99

DKG Quarry

filename o:\data\bonding\m15-41.wb3

M/015/041 (UTU-69860)

Emery County

Prepared by Utah State Division of Oil, Gas & Mining

-This estimate uses a D9 size dozer for most earthwork.

-The DKG gypsum quarry has a permit area of 30 acres; bonded for 12.6 disturbed acres.

-This estimate is based on adherence to the mining & reclamation schedule 1999 - 2008.

-Deviation from the proposed reclamation schedule may result in increased bond amounts.

-Estimated initial disturbance as of 10/26/99: B (3.32) + C (4.09) +access road (0.60) = 8.01 acres.

-Area A: approx. 8.5 acres disturbed, 4.5 acres reclaimed 1995, 4 acres reclaimed 1997; -CAN BE RELEASED.

-Area B: approx. 3.32 acres disturbed, 3.18 acres reclaimed 1998, 0.12 acre access road remains.

-Area C: approx. 4.1 acres disturbed, current mining area includes soil & overburden stockpiles & access road.

-Assumed final disturbances of: 5 acres of previously mined, unreclaimed area & 5 acres of last active quarry, plus main access road outside of quarry & 2 culvert crossings.

-Previously mined inactive area assumed to be a duplicate of active area disturbances.

-Active mine area includes: overburden & soil stockpiles (2 acres) & quarry floor including road (3 acres).

-Main access road disturbance at end of mine life estimated as 2.6 acres.

-Access road assumed to be 25 ft wide, 4,500 ft long (based on max length of mining blocks block).

-Access road segment within active quarry area covered with overburden; no ripping required.

-Overburden volume is based on 2ft depth over 10 acres; topsoil volume is based on 1 ft depth over 10 acres.

-Estimated maximum disturbance over entire mine life = 30.0 acres

-Maximum disturbance allowed (bonded) at any time = 12.6 acres

Activity	Quantity	Units	\$/unit	\$	Note
Ripping stockpile & compacted areas (2 x 2 acre)	4.0	acre	250	1,000	(1)
Regrading portions of quarry (2 x 2 acre)	4.0	acre	337	1,348	(2)
Ripping 1/2 main access road - dozer	1.3	acre	250	325	(1)
Regrading all main access road - dozer	2.6	acre	337	876	(2)
Surface drainage restoration - trackhoe	500	LF	0.11	55	(3)
Culvert removal - trackhoe	2.0	each	1,000	2,000	(01)
Overburden replacement - dozer- 2ft, 10 acre	32,267	CY	0.33	10,648	(4)
Topsoil replacement - dozer - 1 ft, 10 acre	16,133	CY	0.33	5,324	(4)
Drill seeding	12.6	acre	150	1,890	(02)
General site cleanup & trash removal (10% site)	3.0	acre	50	150	(03)
Equipment mobilization	2	equip	1,000	2,000	(04)
Reclamation Supervision	4	days	372	1,488	(5)
		Subtotal		27,104	
10% Contingency				2,710	
		Subtotal		\$29,815	
Escalate for 5 years at 3.27% per yr				5,204	
		Total		\$35,019	
				\$35,000	
Average cost per disturbed acre =				\$2,778	

Rounded surety amount in yr 2004-\$

\$35,000

RECLAMATION SURETY ESTIMATE*Diamond K Gypsum, Inc.*

last revision

10/27/99*DKG Quarry*

filename o:\data\bonding\m15-41.wb3

*M/015/041 (UTU-69860)**Emery County*

Prepared by Utah State Division of Oil, Gas & Mining

Note

- (1) Means 1999 & Blue Book 3Q/99: Cat D9N, U, multi shank rippers, speed 1.0 mph
- (2) Means 1999 & Blue Book 3Q/99: Cat D9N, U, mtl 2550 lb/CY, 50 ft push, 1 ft depth
- (1) Means 1999 & Blue Book 3Q/99: Cat D9N, U, multi shank rippers, speed 1.0 mph
- (2) Means 1999 & Blue Book 3Q/99: Cat D9N, U, mtl 2550 lb/CY, 50 ft push, 1 ft depth
- (3) Means 1999 & Blue Book 3Q/99: Cat D9N, U, mtl 2550 lb/CY, 50 ft push, used avg vol 0.5CY/LF-berm
- (01) dogm general estimate - lump sum - 4ft dia culvert
- (4) Means 1999 & Blue Book 3Q/99: Cat D9N, U, mtl 2550 lb/CY, 100 ft push
- (4) Means 1999 & Blue Book 3Q/99: Cat D9N, U, mtl 2550 lb/CY, 100 ft push
- (02) DOGM general estimate - drill seeding
- (03) DOGM general estimate - site cleanup & trash removal
- (04) DOGM general estimate - equipment mobilization
- (5) Means 1999, 010-036-0180, project manager, minimum \$1,860/wk